

ABSTRACT OF THE DISCLOSURE

Described are mixtures consisting essentially of oxomacrocyclic compounds containing greater than about 40 weight % Δ^3 -cyclotetradecen-1-one and greater than about 40 weight % cyclotetradecanone and less than about 5 weight %, of Δ^2 -cyclotetradecen-1-one, perfumery uses thereof and chemo-selective catalytic hydrogen process for preparing same by hydrogenating mixtures containing significant concentrations, greater than 15 weight %, of Δ^2 -cyclotetradecen-1-one. The oxocarbocyclic compound-containing mixtures have advantageous musk aroma imparting, augmenting and enhancing perfumery properties causing the mixtures to be useful in perfume compositions, perfumed articles and perfumed polymers, including particles and fibers produced therefrom.